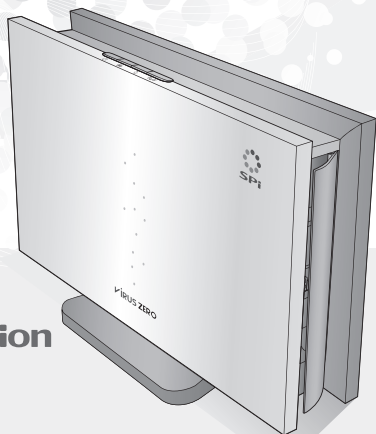


# VIRUS ZERO

Wall-mounted/Stand type



**S-Plasma ion**





# Feature of Your product

## Mechanism of ion generation

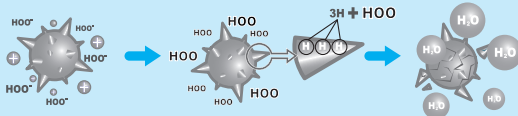
Micro Plasma discharger generates Hydrogen and Oxygen ion ( $O_2^-$ ).

- Ceramic electrode (+ electrode): Micro plasma discharger splits water molecules in the air and forms positively charged hydrogen atoms ( $H^+$ ).
- Pin electrode (- electrode): High-voltage electric discharger emits electrons ( $e$ ) which react with  $H^+$  and  $O_2$  to form Hydrogen atom ( $H$ ) and Oxygen ion ( $O_2^-$ ).
- Hydrogen atom ( $H$ ) and Oxygen ion ( $O_2^-$ ) together form Hydroperoxy radicals ( $HOO\cdot$ ).

## Excellent air purifying technology

SPI generates Hydrogen atom ( $H$ ) and Oxygen ion ( $O_2^-$ ) which reacts together to form Hydroperoxy radicals which the positively charged biological contaminants then reacts with three hydrogen elements of its protein structure before forming water vapor. Also, the Hydrogen atom ( $H$ ) will combine with OH-radical to form a water vapor and neutralize harmful OH-radical.

### Virus Elimination Mechanism



### Perfect Elimination of Biological Contaminant

SPI eliminates biological contaminants (such as bacteria, viruses, molds etc.) more effectively in airtight area.

### Anti Allergen

SPI eliminates harmful allergens (such as dust mites, dusts and dog/cat hair) which can cause rhinitis, asthma or other allergic symptoms.

### World Recognized Technology

SPI technology is tested and its effectiveness was proven from many academic organizations in Korea, Japan and United Kingdom etc.

## Enhanced performance

Through the pin electrodes mounted on both sides of the product, SPI provides faster and more powerful antibacterial performance.

## Stylish design

Simple and luxury style allow you to place the product in any interior or automobile.



# Contents

## Before Using the Product

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## Basic Operation

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## Other Information

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Note

Recommended instructions or useful information for use.



## Safety Information

Please read and follow the instructions in this manual for safety of user and to prevent any possible damage or loss of property.

- ⚠ WARNING** Hazards or unsafe practices that may result in severe personal injury or death.
- ⚠ CAUTION** Hazards or unsafe practices that may result in minor personal injury or property damage.

### Power supply

- ⊘ Never use a damaged power plug or loosened power receptacle.



▶ Potential risk of fire or electric shock.

- ⊘ Do not yank the power cable and touch the power plug with wet hands.



▶ Potential risk of fire or electric shock.

- ❗ Do not use the multi outlet.



▶ Potential risk of fire or electric shock.

- ⏻ If the product is not going to be used for an extended period of time, unplug the power from the wall.



▶ You can save energy and prevent electric leak or fire.

- ⊘ Do not unplug the power cable to turn off the power.



▶ Potential risk of product damage or electric shock. Use the power button to turn off the power.

### ⚠ WARNING

- ⊘ Do not use the product connected to unrated power supply.



▶ Product may not operate normally and there is potential risk of fire.

- ⏚ Connect the power plug to a grounded receptacle.



▶ Potential risk of fire or electric shock.

- ⊘ Use the authorized power cable only.



▶ Potential risk of fire or electric shock.

- ⊘ Do not bend the power cable excessively or place heavy object on the power cable.



▶ Potential risk of fire or electric shock.

- ❗ Follow the direction carefully.
- 🚫 Do not attempt.
- 🔌 Unplug the power plug from the wall socket.
- 🔧 Do not disassemble.
- 🔌 Make sure the machine is grounded to prevent electric shock.

## Installing

## ⚠ WARNING

- 🚫 Do not install the product in a place where flammable gas leaks or may potentially leak.



▶ Potential risk of explosion or fire.

- 🚫 Install the product away from direct exposure to sunlight, heating appliance and humid places.



▶ There are potential risk of electric shock and performance decrease.

## Installing

## ⚠ CAUTION

- 🚫 Do not install the product in uneven or sloped surface.



▶ If the product falls, it can be damaged or perform abnormally.

- 🚫 Do not install the product in a place with oil fume or metallic dust.



▶ Potential risk of fire or product damage.

- 🚫 Make sure to clear at least 10cm around the product.



▶ If you cannot clear space around the product, it may cause performance decrease.

- 🚫 Do not install the product near heating appliance such as stove.



▶ Potential risk of fire.



## Safety Information(Continued)

### Operating



**Do not apply shock or pull the appliance with excessive power.**



▶ This may result in fire, injury or a problem with the product.



**If the product generates a strange noise, burning smell or smoke, unplug the power plug immediately and contact service center.**



▶ Potential risk of fire or electric shock.



**Do not attempt to repair, disassemble or modify the appliance yourself.**



▶ Potential risk of product damage, electric shock or fire. Contact service center when repair is needed.



### WARNING



**If the appliance is flooded, contact nearest service center.**



▶ Potential risk of fire or electric shock.



**Do not insert fingers or foreign substances into the air inlet or ion outlet.**



▶ Potential risk of product damage or electric shock.



**Make sure there is no obstacle near air inlet or the ion outlet.**



▶ It may cause product damage or performance decrease.

### Operating



### CAUTION



**If the power cable or the plug is damaged, the manufacturer or a qualified service technician must replace it.**



**Make sure children does not touch or use the product.**



▶ If the product falls, they may get injured.

## Operating

## CAUTION

- Do not touch the ion outlet while product is operating.



Potential risk of product damage or electric shock.

- Do not use the supplied power cable with any other products.



Potential risk of product damage or electric shock.

- Ensure no water gets into the product.



Potential risk or electric shock.

If the water gets into the product, stop the operation and unplug the power cable.

- Do not spray inflammable gases such as insecticide near the product.



Potential risk of electric shock, fire or unit malfunction.

## Cleaning

## WARNING

- Unplug the power before cleaning the product.



Potential risk of personal injury or electric shock.

- Unplug the power before changing the air filter.



## Cleaning

## CAUTION

- Do not spray water directly on the product or use benzene, thinner or alcohol to clean the product.



Potential risk of fire or electric shock.

It may damage the surface of the product.

- Clean the dusts on the power plug pins.



Potential risk of fire or electric shock.



## Checking the Components

The figure in this manual may differ from actual product.



Main Unit



Remote  
Controller



Power Adapter



Stand



Wall Bracket



Screws  
(6 ea)



Anchor  
(6 ea)



Clamping Bolt  
(1 ea)



Cleaning  
Brush



User's  
Manual

※ Check if any contents are missing or damaged before using.

※ To purchase additional power adapter, contact our customer center (714-530-5791)

### Installing a battery

- 1 Open the battery holder on the back of the remote control.

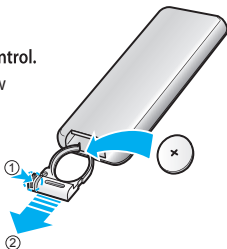
▶ Press the smaller piece in the direction of the arrow (①) and pull the battery holder out(②).

- 2 Insert a battery (Lithium Ion).

▶ Make sure that you check the (+) and (-) signs of the battery.

- 3 Slide the battery holder back in.

▶ Push it until you hear click sound.



Note

- Point the remote controller towards the remote control sensor of the main unit.
- The signal may not be received well of electronic lighting style fluorescent lamps such as inverter fluorescent lamps are in the same space.
- If other electrical products operate by the remote controller, contact the customer service center.



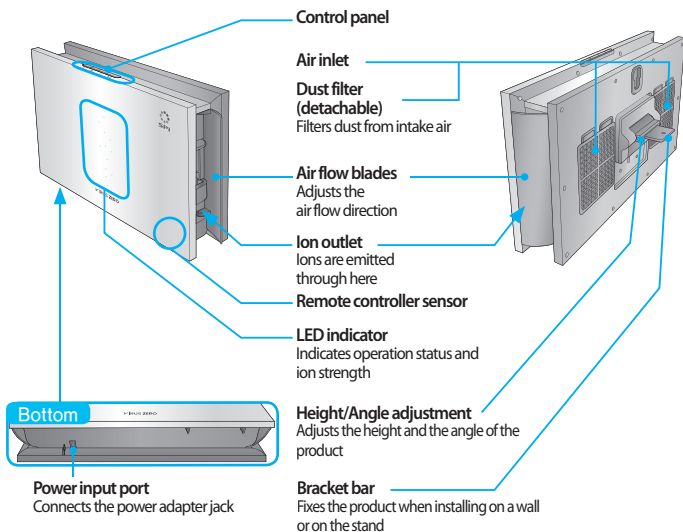


## Checking the Parts

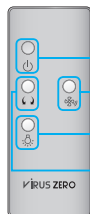
Check the names and functions of each part.

### Front side

### Rear side



### Remote controller



#### Buttons on control panel and remote controller

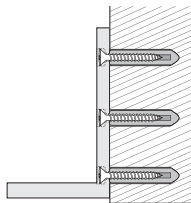
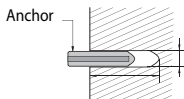
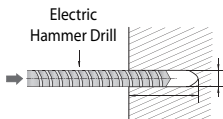
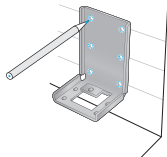
	<b>Power Button</b>	Turns the power on/off
	<b>Ion Strength Button</b>	Controls ion strength
	<b>LED Indicator Button</b>	Turns LED indicator on/off
	<b>Wind Button</b>	Adjusts the air flow direction

※ Remote controller and control panel have same buttons and adjusts same functions.



# Installing the Product

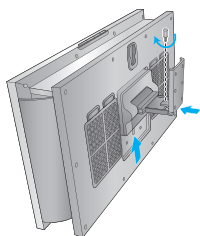
Wear protective equipment (gloves, safety glasses, etc.) for your safety.



## Installing a wall mount type

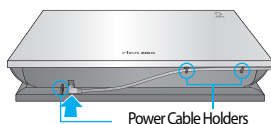
(Preparations: Spirit level, pen or pencil, electric hammer drill, hammer and driver)

- 1 After locating the bracket to be attached on a wall, adjust it horizontally with a spirit level and mark the positions of 6 bracket holes with a pen.
- 2 Make holes (diameter: 6.5 mm) on the marked wall with an electric hammer drill.
- 3 After inserting anchor into the drilled holes, strike them with a hammer to insert deeply and then remove the ends of the anchor protruding from the wall with a knife.
- 4 Align the bracket holes on the wall where anchors are inserted and secure the bracket with screws.

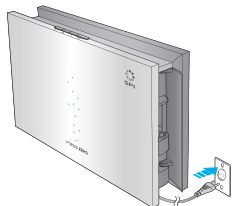


- 5** After inserting the bracket bar on the rear side of the product into the bracket attached on the wall, fix the product with a clamping bolt.

► When fixing the product on the bracket, lift the Height/Angle Adjustment up to the maximum extent by taking account of product's weight and center of gravity.



- 6** Plug the power adapter jack to the power input port and insert the power cable to the power cable holders in the correct direction that a power socket is located.



- 7** Connect the power adapter to the power socket.
- When connecting the power, the LED indicator of the power adapter turns blue (operation standby) and a dingdong sound is heard.

#### CAUTION

- For the location on a wall to install the product, select a place where you can easily separate the product for regular cleaning of the dust filter and repairs.
- After checking the internal structure of the wall, install the product on a solid place that can withstand the weight of the product. If the wall structure is weak (e.g., sheetrock or thin plywood), the product may fall.
- When installing the product on a wall, keep and secure it horizontally to prevent it from swaying on the wall.
- Always use an exclusive power adapter.  
Using a power adapter with different rating voltage may result in product malfunction or fire.

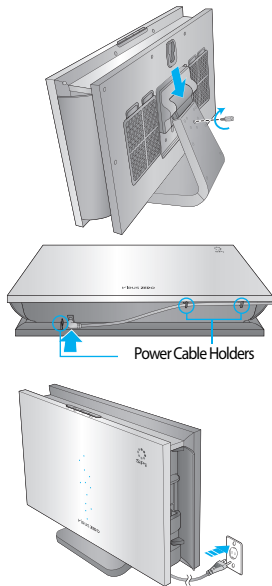


- Using the product in a place with low humidity (below 20%) may deteriorate the performance of the product.

## Installing the Product(Continued)

### Installing a stand type

(Preparation: Screwdriver)



- 1 After inserting a bracket bar on the rear side of the product into the supplied stand, fix the product with a clamping bolt.

▶ When mounting the product on the stand, you can adjust the angle with the height/angle adjustment.

- 2 Plug the power adapter jack into the power input port and insert the power cable to the power cable holders in the correct direction that the power socket is located.

- 3 Connect the power adapter to a power socket.

▶ When connecting the power, the LED indicator of the power adapter turns blue (operation standby) and a dingdong sound is heard.

#### CAUTION

- Always use a exclusive power adapter. Using a power adapter with different rating voltage may result in product malfunction or fire.



Note

- Using the product in a place with low humidity (below 20%) may deteriorate the performance of the product.


# Operating the Product

Learn how to use the buttons on the remote controller or the control panel.  
(Remote controller and control panel have same buttons and adjusts same functions.)




## Powering on/off

### Turning on the power

To start the operation, press [  ] button on the remote controller or control panel.

- ▶ The LED indicator is turned on along with the operation startup sound.
- ▶ If the operation starts, the air flow blades automatically moves to adjust air flow direction regardless of the previous setting.
- ▶ The ion strength at the start of its operation is 'low'.


### Turning off the power

To stop the operation, press [  ] button on the remote controller or control panel.

- ▶ The LED indicator is turned off along with the operation end sound.
- ▶ If the operation stops, the air flow blades will be closed automatically.



## Adjusting ion strength


To select ion strength, press [  ] button on the remote controller or control panel while operating.

- ▶ Whenever the button is pressed, the operation mode will be selected in order of (low)▷(high)▷(turbo) along with dingdong sounds.
- ▶ If you start the operation, the ion strength is set to 'low' regardless of the previous setting.

## Operating the Product(Continued)




### Turning on/off the LED indicator

To turn on/off the LED indicator, press [  ] button on the remote controller or control panel.

- ▶ If you press the button, the LED indicator is turned on or off along with a 'ding' sound.
- ▶ The stronger the ion strength is, the faster the blink speed of the LED indicator is.
- ▶ If you start the operation, the LED indicator is always turned on regardless of the previous setting.



### Adjusting air flow direction

To adjust the air flow direction, press [  ] button on the remote controller or control panel while operating.

- ▶ If you press the button, the air flow blades will move or stop.
- ▶ If you start the operation, the air flow blades will automatically move regardless of the previous setting.

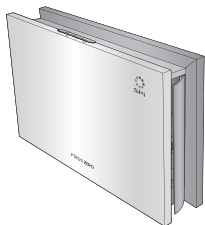
#### CAUTION

- Do not press any button by force or multiple buttons simultaneously. It may result in product malfunction.
- Do not open or close the air flow blades in any way. In particular, if you close the air flow blades during operation, it may result in product malfunction due to the overload of the fan motor by directing the wind to the inside of the product.



## Cleaning and Maintaining the Product

Turn off the power and unplug the adapter before cleaning the product.



### Cleaning the exterior

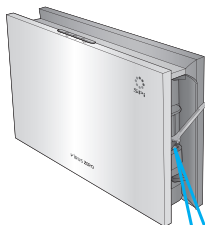
Wipe the surface of the product with a slightly wet or dry cloth when needed.


- ▶ Use the cleaning brush to clean the dust or other foreign substances on the ion outlet.

#### CAUTION

- Do not spray water directly on the product or use alkaline detergent and organic solvent (Benzene, thinner or alcohol) to clean the product. They may damage the surface of the product or cause fire and electric shock.

### Cleaning the pin electrode



- 1 To stop the operation of the air flow blades, press [  ] button on the remote controller or the control panel when it is completely inclined to any side during the operation.

- 2 Use the cleaning brush to clean the tip of the pin electrode on left and right side of the product as shown in the picture.

#### CAUTION

- Pin electrodes can be damaged by strong external impact from the. Do not apply excessive force to the pin electrodes to prevent them from bending or breaking when cleaning.
- Do not open the air flow blades in any manner when its operation is stopped. It may result in product malfunction.

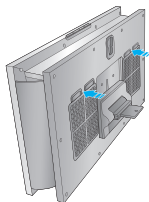
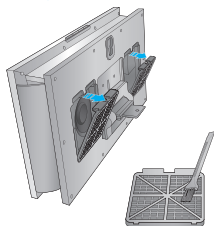
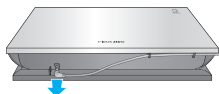


Note

- Clean the pin electrode every two weeks. The cleaning term may differ on usage and environmental condition. Accumulated dust on the pin electrode may cause performance decrease.



## Cleaning and Maintaining the Product (Continued)



### Cleaning the dust filter

- 1** Disassemble the power adapter jack from the power input port.
- 2** Disassemble the dust filter.
  - ▶ As shown in the figure on the left, you can separate the dust filter by pulling it in the direction of the arrow.
- 3** Remove the dust accumulated in the dust filter with a cleaning brush.
- 4** After cleaning, assemble the filter again.
  - ▶ After aligning the lower part of the filter with the groove of the product, slide the filter until you hear a 'click' sound.

### CAUTION

- When cleaning the dust filter of a wall mount-type product, disassemble the filter after separating the product from the bracket attached to a wall. If you disassemble the dust filter with the product connected to the bracket, it induces improper posture or excessive force due to the narrow space between the product and the wall. It may result in personal injury or product damage.



Note


- Clean the dust filter every two weeks. The cleaning term may differ on usage and environmental condition. Accumulated dust on the dust filter may cause performance decrease.





## Troubleshooting

Check the following list before reporting the problem.

Problem	Check	Solution
Product is not operating.	Check if there is power failure.	Make sure that the power is on before trying again.
	Check if the power plug is properly connected.	Connect the power plug properly and try again.
	Check if the adapter is working properly.	Try another power receptacle.
Strange odors permeate in the room during operation.	Check if you are using the product in a place with smoke or other odor.	It can be less effective when the product is being used in a place with excessive odor or smoke. Ventilate the area before using the product.
	Check if there is dust or foreign substances on the ion outlet.	Clean the ion outlet and operate the product.
Not sure if the product is operating.	Is the LED indicator of the product turned off?	Press [  ] to turn on the LED indicator.
There is no air coming out.	Check if the air filter is blocked with dust.	Clean the air filter if it is dirty.
Noise is coming out from the product.	Check if the ion outlet is blocked.	Remove any obstacles blocking the ion outlet.
	This product is equipped with a small fan. A small noise during operation is normal.	



## Product Specification

Model name	SP-SA6
Dimension (Length X Width X Height)	419 X 80 X 246 mm
Rated Voltage	DC 12V exclusive adapter

- Due to ongoing improvement of the product, specification and design may change without prior notice.

# Product Warranty

Product warranty is for 1 Year

## About warranty service

Mag & Brook, Inc. provide warranty service according to following guideline stated below. When the product repair is required, Mag & Brook, Inc. will provide warranty service and the detail status of the product will be notified within 7 days and the refund or product exchange will be done within a 14 days from repair request.

Product Name	Model Name
Date of Purchase . . . . .	Serial No.
Place of Purchase	Price

If the product is used in commercial place, warranty period will be shortened by half.

Free warranty service			Paid service
■ Type of defects or trouble	Within warranty period	After warranty expires	
<b>When the product shows performance or functional failure within the part service period.</b>			
■ Critical performance and functional failure within 10 days from purchasing the product	Exchange or refund	N/A	<b>When the product is not defected</b> ■ Re-installation is required due to false installation by installation agency or repair doesn't require disassembling. ■ When the product requires internal cleaning and re-installation due to moving, false installation or other reasons.
■ Critical performance and functional failure within a month from purchasing the product	Exchange or free repair	N/A	
■ Defect occurred during shipping or installation	Exchange	N/A	
■ Critical performance and functional failure within a month from product exchange	Refund	N/A	
■ When product exchange is impossible	Refund	N/A	
■ When same failure occurred twice	Free repair	Paid service	<b>When the defect is caused by user</b> ■ Defects caused by careless handling or improper repairing and modification. ■ Defects caused by using improper power supply. ■ Defects caused by repairs done at a place other than the Mag & Brook, Inc ■ Defects or damages resulting from dropping the product. ■ Defects caused by using accessories not provided by Mag & Brook, Inc ■ Defects caused by not following the 'Safety information' on the user manual
■ When same failure occurred three times	Exchange or refund	Paid service	
■ When different failures occurred five times	Exchange or refund	Paid service	
■ When the product is lost during repair service	Exchange or refund	Refund the price deducted by the depreciation amount and added by its 10%	
■ When the product repair is impossible because parts are not in stock within the part service period	Exchange or refund	Refund the price deducted by the depreciation amount and added by its 10%	
<b>If the product defect is caused by user</b>			
■ When repair is impossible even though the parts are available	Refund after equivalent repair service fee is charged	Refund the price deducted by the depreciation amount after equivalent repair service fee is charged	<b>Others</b> ■ Defects resulting from natural disasters such as fire, earthquake, flood, etc. ■ Expiry of life time of consumable parts (filters etc.)
■ When the product repair is possible	Paid service	Paid service	
※ Service fee will be charged if the product repair is requested when the product is not defected.			

Distributor / Manufacturer : Mag & Brook, Inc.  
Device provider : Samsung Electronics Co., Ltd.

**Mag & Brook, Inc.** ■ Customer Service Center  
714-530-5791

Let us know the product model, problem and the contact information. We will try to provide you with the fast and satisfying solution.